

Notice of Allowability

Application No.

10/013,081

Examiner

Michael V Battaglia

Applicant(s)

KIM, SOO-KYUNG

Art Unit

2652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08 November 2004.
2. ☒ The allowed claim(s) is/are 7-10 and 12-30 (now renumbered as 1-17,21-23 and 18-20, respectively).
3. ☒ The drawings filed on 10 December 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 08 November 2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

This action, dated December 1, 2004, is in response to Applicant's amendment, filed September 7, 2004. Claims 7-10 and 12-30 are pending.

Allowable Subject Matter

Claims 7-10 and 12-30 are allowable over the prior art of record.

In regard to claim 7, none of the references of record alone or in combination disclose or suggest a near field optical recording device comprising: a first driving unit for rotating a recording medium; an optical pick-up unit having a light source and a light modulation unit; a second driving unit for rotating the optical pickup unit; a longitudinal head slider having first and second ends positioned over an upper surface of a recording medium; an objective lens mounted on the first end and a first surface of the head slider for focusing light generated from the optical pick-up unit; and a collective lens mounted on the first end and a second surface of the head slider approximately opposite the objective lens for guiding the focused light to the recording medium, **the head slider having an air induction channel extending longitudinally from the first end to the second end through the head slider, formed between and separating the objective lens and the collective lens, the first air induction tunnel.**

In regard to claim 22, none of the references of record alone or in combination disclose or suggest a near field optical recording device comprising: a longitudinal head slider configured to be mounted on an optical pick-up unit positioned over an optical recording medium, the head slider having first and second ends; an objective lens mounted on the first end and a first surface of the head slider for focusing light generated from the optical pick-up unit; a collective lens mounted on the first end and a second surface of the head slider approximately opposite the objective lens for

Art Unit: 2652

guiding the focused light to the recording medium, the head slider having a first air induction tunnel formed between the objective lens and the collective lens, the first air induction tunnel extending longitudinally from the first end to the second end through the head slider.

Conclusion

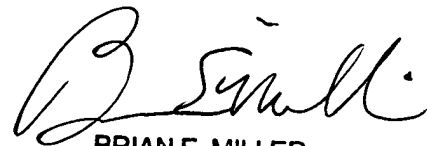
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael V Battaglia whose telephone number is (703) 305-4534. The examiner can normally be reached on 5-4/9 Plan with 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T Nguyen can be reached on (703) 305-9687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael Battaglia



BRIAN E. MILLER
PRIMARY EXAMINER